

A  
GENERAL CATALOGUE  
OF THE  
FLORA OF VERMONT.

By GEORGE H. PERKINS, Ph. D.,  
Professor of Natural History in the University of Vermont.



MONTPELIER, VT.:  
FREEMAN STEAM PRINTING HOUSE AND BINDERY.  
1882.



Cancelled  
A. M. N. H.





OUR EARLY SPRING FLOWERS.



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CENTRAL MUSEUM  
CENTRAL PARK  
NEW YORK  
OF NATURAL HISTORY

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ALBANY, N.Y.

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## FLORA OF VERMONT.

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Since the list of Vermont plants published by Oakes in Thompson's Vermont in 1842, none has been issued up to the present time. A list was commenced by the author in the "Archives of Science" in 1872, but it came to a speedy end on account of the discontinuance of that periodical. No apology is needed for the publication of a new list after an interval of forty years, for changes in nomenclature and especially the discovery of species new to the State are sufficiently numerous to render the old list nearly useless to the collector of to day. It has for several years been my wish that a new list of Vermont plants should be prepared by Mr. C. G. Pringle, of Charlotte, who is better acquainted with our flora than any one else, but it does not seem probable that this gentleman will find leisure from his other duties to do this work, and I therefore avail myself of the opportunity afforded me by the secretary of the Board of Agriculture to print the following list in the report of that Board. In the compilation of this list I have made use of all the materials available, and it is believed to be tolerably complete. Besides the list of Mr. Oakes referred to, I have used the herbarium of Vermont plants belonging to the University, collected by the late Prof. Joseph Torrey. I have also lists furnished by Mr. C. C. Frost, of Brattleboro, not long before his death, giving the results of his later explorations, and Mr. F. H. Hosford, of Charlotte, Mr. Pringle's associate in study and exploration, has very kindly furnished me with notes of his own and Mr. Pringle's discoveries, which have added many species to the list. Mr. Lucius Bigelow, who has botanized extensively about Burlington and Rutland, has also furnished me with lists of new plants found by him, and my own explorations have enabled me to verify many of the discoveries of others, as well as to add to them. I would also acknowledge indebtedness to Prof. Jessup's "Flora of Hanover, N. H.," in which several Vermont localities for plants hitherto undiscovered in the State are given. These are indicated by quotation marks in the following list. Had more space been at my command some synonymy might have been introduced, and more specific information as to localities. Botanists will not fail to notice that names have been assigned to some of the genera and species which would not have been used by the latest botanical authorities, but it has been thought unwise to adopt changes not yet introduced into the botanical manuals accessible to the common student. When the English, or common name, of a plant is really in use it has been given, but no attempt has been made to provide common names for plants that have none.

## CATALOGUE OF PLANTS.

## EXOGENOUS PLANTS.

## POLYPETALOUS EXOGENS.

## Order 1.—RANUNCULACEÆ.

## CLEMATIS, L.

*verticillaris*, D. C. Atragene. Not common.

*viorna*, Wild. Castleton, near Brattleboro. C. C. Frost.

*Virginiana*, L. Common clematis. Common in damp thickets.

## ANEMONE, L.

*cylindrica*, Gray. Sparingly in many localities.

*multifida*, D. C. Common near Burlington.

*Virginiana*, L. Common.

var. *alba*. Common.

*nemorosa*, L. Abundant in open woods and copses.

*Pennsylvanica*, L. Common.

## HEPATICA, Dill. Liverwort.

*triloba*, Chaix. Very common.

“ var. *acuta*. Less common than the species.

## THALICTRUM, Tourn. Meadow Rue.

*anemonoides*, Mich. Woods, southern part of State. Rare.

*dioicum*, L. Common in meadows.

*Cornuti*, L. Very common.

## RANUNCULUS, L. Buttercup.

*aquatilis*, L, var. *capillaceus*. Sluggish streams.

*multifidus*, Pursh. Streams. Common.

*Flammula*, L, var. *reptans*, Gray. Shore of Lake Champlain and borders of large streams.

*abortivus*, L. Common in shaded places.

*divaricatus*, Seb. “Windsor, Leland.” Rare.

*sceleratus*, L. Not common.

*recurvatus*, Poir. Moist hillsides.

*Pennsylvanicus*, L. Common in low ground.

*fascicularis*, Muhl. Moist ground. Not common.

*repens*, L. Moist ground. Not common.

\**bulbosus*, L. Hillsides. Rare.

\**acris*, L. Very common everywhere.

## CALTHA. Cowslip. Marsh Marigold.

*palustris*, L. Common in wet meadows and swamps.

## TROLLIUS, L. Globe-flower.

*laxus*, Salisb. Rare.



- COPTIS, Salisb. Gold thread.  
*trifolia*, Salisb. Common in clearings and edges of groves.
- AQUILEGIA, Tourn. Columbine. Honey suckle.  
*Canadensis*, L. Common. Sometimes found with white flowers.  
*\*vulgaris*, L. Escaped from cultivation.
- ACTEA, L. Baneberry.  
*spicata*, L. var. *rubra*, Mx. Wooded hillsides.  
*alba*, Big. More common than the preceding.
- CIMIFUGA, L. Snake root.  
*\*racemosa*, Ell. Rocky woods. Rare.

## Order 2.—MAGNOLIACEÆ.

- LIRIOLENDRON. Tulip Tree. Whitewood.  
*tulipifera*, L. Found only in southern Vermont.

## Order 3.—MENISPERMACEÆ.

- MENISPERMUM, L. Moon-seed.  
*Canadense*, L. Common, especially northward.

## Order 4.—BERBERIDACEÆ.

- BERBERIS, L. Barberry.  
*\*vulgaris*. Not common.
- CAULOPHYLLUM, Mx. Pappose-root.  
*thalictroides*, Mx. Common.
- PODOPHYLLUM, L. May Apple.  
*peltatum*. Southern portion of the state. Not common.

## Order 5.—NYMPHÆACEÆ.

- BRASENIA, Sch. Water shield.  
*peltata*, Pursh. Common.
- NYMPHEA, Tourn. Pond-lily.  
*odorata*, L. Common.  
*tuberosa*, Paine. Mouth of Missisquoi river, Jessup. Wi-  
 nooski river, Pringle.
- NUPHAR, Sm. Yellow-lily. Cow lily.  
*advena*, Ait. Common.  
*pumilum*, Sm. Lake Champlain, near Burlington.

## Order 6.—SARRACENIACEÆ.

- SARRACENIA, Tourn. Pitcher Plant. Side-saddle Flower.  
*purpurea*, L. Common in swamps.

## Order 7.—PAPAVERACEÆ.

- PAPAYER, L. Poppy.  
*\*dubium*, L. Cultivated grounds, C. G. Pringle.

CHELIDONIUM, L.

*\*majus*, L. Not uncommon about dwellings.

SANGUINARIA, Dill. Blood-root.

*Canadensis*, L. Not very common.

Order 8.—FUMARIACEÆ.

ADLUMIA, Raf. Mountain Fringe.

*cirrhusa*, Raf. Not common.

DICENTRA, Bork.

*cucullaria*, D. C. Common in damp woods.

*Canadensis*, D. C. Less common than the first.

CORYDALIS, Vent.

*glauca*, Pursh. Not common.

*aurea*, Willd. Common.

Order 9.—CRUCIFERÆ.

NASTURTIUM, R. Br. Cress.

*palustre*, D. C. Common in wet places.

" var. *hispidum*, May. Borders of Ponds.

*lacustre*, Gray. Borders of Otter Creek.

*\*Armoracea*, Fries. Escaped from cultivation.

DENTARIA, L.

*diphylla*, L. Rare.

*maxima*, Nutt. Near Burlington. Very rare.

*heterophylla*, Nutt. A. P. Morgan.

*laciniata*, Muhl. More common than the other species.

CARDAMINE, L.

*rhomboidea*, D. C. Not Common.

*rotundifolia*, Mx. "Vermont," Robbins.

*hirsuta*, L. Wet places.

" var. *sylvatica*, Gray. Hillsides.

*pratensis*, L. Chiefly found in northern Vermont.

ARABIS, L. Rock Cress.

*lyrata*, L. Not common.

*petroea*, Lam. Willoughby mountain, H. Mann.

*hirsuta*, Scop. Common in wet places.

*levigata*, D. C. Not common. Rocky soil.

*Canadensis*, L. Winooski river, Colchester, Torrey.

*perfoliata*, Law. Rocky soil. Southern part of the state.

*Drummondii*, Gray. "White River Junction and Norwich,"  
Jessup.

BARBAREA, R. Br. Winter Cress.

*vulgaris*, R. Br. Meadows. Rather common.

ERYSIMUM, L.

*cheiranthoides*, L. Brattleboro, C. C. Frost.



SISYMERIUM, L. Hedge Mustard.

\**officinale*, Scop. Common.

\**thalianum*, Gaud. Not common.

BRASSICA, TOURN. Mustard.

\**simpistrum*, Boiss. Not common.

\**nigra*, GERY. Common on cultivated ground.

\**campestris*, L. Richmond, C. G. Pringle.

DRABA, D. C.

*arabizans*, Mx. Shores and islands of Lake Champlain and Willoughby Lake. Rare.

*incana*, L. Willoughby mountain.

*verna*, L. Willoughby Lake, Wood.

CAMELINA, Crantz.

\**sativa*, Crantz. Old fields. Common.

CAPSELLA, Vent. Shepherd's Purse.

\**Bursa pastoris*, Muench. A common weed.

THRASPI, TOURN. Cress.

\**arvensis*, Monketon, Pringle; Pomfret, A. P. Morgan. Not common.

LEPIDIUM, L. Pepper Grass.

*Virginicum*, L. Not very common.

\**ruturale*, L. Dry soil. Rutland, Pringle; near lake shore, Burlington. Rare.

RAPHANUS, L. Radish.

*Raphanistrum*, L. Old fields; not common.

ISATIS.

\**tinctoria*, L. Banks of Winooski river, near Burlington.

#### Order 10.—CAPPARIDACEÆ.

POLANISIA.

*graveolens*, Raf. Shores of Lake Champlain.

#### Order 11.—VIOLACEÆ.

VIOLA. Violet.

*rotundifolia*, Mx. Not common.

*blanda*, L. Very common.

*renifolia*, Gr. Lyndon, J. W. Congdon.

*Selkirkii*, Goldie. Cedar swamps. Rare.

*cucullata*, Ait. Common.

var. *palmata*, Gray. Not common.

*sagittata*, Ait. Not rare in rocky woods.

*pedata*, Brattleboro, Frost.

*rostrata*, Pursh.

*striata*, Muhl. Common.

*Canadensis*, L. Common.

*canina*, var. *sylvestris*, Reg. Common.

- pubescens*, Ait. Common.  
var. *eriocarpa*, Nutt.

## Order 12.—CISTACEÆ.

- HELLANTHEMUM, TOUR. Rock Rose.  
*Canadense*, Mx. Not common.

## HUDSONIA.

- tomentosa*, Nutt. Colchester Point, C. G. Pringle; L.  
Bigelow.

## LECHEA, L. Pinweed.

- major*, Mx. Common on dry soil.  
*minor*, L. Common.

## Order 13.—DROSERACEÆ.

## DROSERA, L. Sundew.

- rotundifolia*, L. Common on damp damp banks.  
*longifolia*, L. Swamps; common.

## Order 14.—HYPERICACEÆ.

## HYPERICUM, L. St. John's-wort.

- pyramidatum*, Ait. Not common.  
*ellipticum*, Hook. Common.  
*perforatum*, L. Common.  
*corymbosum*, Muhl. Common.  
*mutilum*, L. Not common.  
*Canadense*, L. Not common.  
*Sarothra*, Mx. Brattleboro, Frost.

## ELODES, Ad.

- Virginica*, Nutt. Swamps. Common.

## Order 15.—CARYOPHYLLACEÆ.

## DIANTHUS, L. Pink.

- \**Armeria*, L. Common.

## SAPONARIA, L. Bouncing Bet.

- \**officinalis*, L. Common.

## SILENE, L. Catch-fly.

- \**inflata*, Sm. Common.  
*Antirrhina*, L. Not common.  
*noctiflora*, L. Common.

## LYCHNIS. Corn Cockle.

- Githago*, Lam. Not common.

## ARENARIA, L. Sandwort.

- \**serpyllifolia*, L. Sandy soil.  
*stricta*, Mx. Cliffs. Common.



*Greenlandica*, Sp. Mountain summits. Common.  
*lateriflora*, L. Damp woods

STELLARIA, L. Chickweed.  
*media*, Sm. Common.  
*longifolia*, Muhl. Common.  
*borealis*, Big. Mountains.  
*graminea*. Monkton, C. G. Pringle.

CERASTIUM, L. Mouse ear Chickweed.  
*\*vulgatum*, L. Common.  
*nutans*, Raf. Moist places.  
*arvense*, L. Monkton, C. G. Pringle. "Rocky pastures north  
of Windsor, Flint."

ASYCHIA, Mx.  
*dichotoma*, Mx. Rocks near Burlington. Not common.

SAGINA  
*procumbens*, L. Brattleboro, Frost.

SPIRGULA, L.  
*\*arvensis*, L. Grain fields.

MOLLUGO, L. Carpet weed.  
*verticillata*, L. Sandy soil. Common.

#### Order 16.—PORTULACACEÆ.

PORTULACA, Tourt. Purslane.  
*oleracea*, L. Far too common.

CLAYTONIA, L. Spring Beauty.  
*Virginica*, L. Common.  
*Caroliniana*, Mx. Not common.

#### Order 17.—MALVACEÆ.

MALVA, L. Mallow.  
*\*rotundifolia*, L. Common in door yards.  
*\*sylvestris*, L. Southern part of the State

ABUTILON, Tourt. Velvet Leaf.  
*\*Avicennæ*, Gært. Waste places.

#### Order 18.—TILIACEÆ.

TILIA, L. Linden. Basswood.  
*Americana*, L. Common.

#### Order 19.—LINACEÆ.

LINUM, L. Flax.  
*Virginianum*, L. Dry woods. Pownal.—Robbins.  
*usitatissimum*, L. Old fields.

## Order 20.—GERANIACEÆ.

- GERANIUM, L. Cranesbill.  
*maculatum*, L. Common,  
*Carolinianum*, L. Not very common.  
*\*dissectum*, L. "Hills near Castleton."—Robbins.  
*Robertianum*, L. Not rare.
- ERODIUM, L'Her.  
*cicutarium*, L. "Ludlow, Mrs. Pollard."
- FLÆRKEA, Willd.  
*proserpinacoides*, Willd. Colchester, F. H. Hosford.
- IMPATIENS, L. Balsam.  
*pallida*, Nutt. Less common than the next species.  
*fulva*, Nutt. Common.
- OXALIS, L. Sorrel.  
*Acetosella*. Mountain woods. Common.  
*violacea*, L. "Cavendish, Dr. Graves."  
*stricta*, L. Common.

## Order 21.—RUTACEÆ.

- XANTHOXYLUM, Cald. Prickly Ash.  
*Americanum*, Muhl. Not common.

## Order 22.—ANACARDIACEÆ

- RHUS, L. Sumach.  
*typhina*, L. Hillsides. Common.  
*glabra*, L. Hillsides.  
*copallina*, L. Not common.  
*venenata*, D. C. Swamps. Not Common. Poisonous.  
*Toxicodendron*, L. Poison Ivy. Common.  
*aromatica*, Ait. Not common.

## Order 23.—VITACEÆ.

- VITIS, Grape Vine.  
*Labrusca*, L. Thickets. Common. (Fox Grape.)  
*æstivalis*, Mx. Common.  
*?cordifolia*, Mx.  
*riparia*, Mx. (Frost Grape.)
- AMPELOPSIS, Woodbine.  
*quinquefolia*, Mx.

## Order 24.—RHAMNACEÆ.

- RHAMNUS, Buckthorn.  
*\*catharticus*, L. Not common.  
*alnifolius*, L'Her. Swamps.



## CÆLANOTHUS.

*Americanus*, L. Common.

*ovalis*, Desf. Sandy shores of Lake Champlain.

## Order 25.—CELASTRACEÆ.

CELASTRUS, L. Bittersweet.

*scandens*, L. Common.

EUONYMUS. Burning Bush.

*atropurpureus*, Jacq. Common in cultivation, and wild in Canada, and may be found wild in Vermont.

## Order 26.—SAPINDACEÆ.

STAPHYLEA, L. Bladder Nut.

*trifolia*, L. Not common.

ACER, Tourn. Maple

*Pensylvanicum*, L. (Mouse Wood.) Common.

*spicatum*, Lam. Common on rocky hillsides.

*saccharinum*, L. Common. (Sugar Maple.)

var. *nigrum*, Gray. Less common than the preceding.

*dasycarpum*, Ehrh. Common. (White Maple.)

*rubrum*, L. Swamps. (Red Maple.)

NEGUNDO. Box Elder.

*aceroides*, Mæneh. Not common.

## Order 27.—POLYGALACEÆ.

POLYGALA, Tourn. Milkwort.

*ambigua*, Nutt. Not common.

*paucifolia*, L. Very common in dry, open woods.

*polygama*, Walt. Common.

*sanguinea*, L. Not common.

*Senega*, L. Abundant.

*verticillata*, L. Near Bellows Falls. Not common.

## Order 28.—LEGUMINOSÆ.

LUPINUS, Tourn. Lupine.

*perennis*, L. Common on sandy soil—sometimes with white flowers.

TRIFOLIUM, L. Clover.

*arvense*, L. Dry fields. Not common.

*pratense*, L. Common red clover.

*stoloniferum*, Muhl. Bellows Falls, Mrs. Brown.

*repens*, L. Common white clover.

\**agrarium*, L. Yellow clover. Common.

\**procumbens*, L. Rather common.

MELILOTUS, Tourn. Sweet clover.

*\*officinalis*, Willd. Not common.

*\*alba*, Lam. Common.

MEDICAGO, L.

*\*sativa*, L. "Pomfret, A. P. Morgan."

*\*lupulina*, L. Rare. South Hero, and a few other localities.

ROBINIA, L. Locust.

*Pseudacacia*, L. Escaped from cultivation in some places.

*\*viscosa*, L. Also in a few places escaped from cultivation.

ASTRAGALUS, L.

*Canadensis*, L. Not common. Shore of Lake Champlain.

*alpinus*, L. Mountain sides. Northern Vermont. Bellows Falls, Mrs. Brown. Rare.

*Robinsii*, Gray. Near Burlington: also at Hartland, and near Hanover, N. H.

HEDYSARUM, Tourn.

*boreale*. Willoughby Mountain, Wood. Mt. Mansfield, Pringle.

DESMODIUM, D. C. Tick Trefoil.

*acuminatum*, D. C. Dry woods. Common.

*Canadense*, D. C. Common along streams.

*canescens*, D. C. Dry soil. Not rare.

*Dillenii*, Darl. Chiefly found in Southern Vermont.

*nudiflorum*, D. C. Common.

*paniculatum*, D. C.

LESPEDEZA, Mx. Bush Clover.

*repens*. Barton. Brattleboro, Frost.

*violacea*, Pers. Dry woods.

*hirta*, Ell. Dry soil.

*capitata*, Mx. Pastures. Common.

VICIA, Tourn. Vetch.

*\*sativa*, L. Common in grass and hedges.

*Cracca* L. Common.

LATHYRUS.

*maritimus*, Bigel. Shores of Lake Champlain.

*ochroleucus*, Hook. Rare in most places, but abundant on bluffs on Lake Champlain and on some of the islands.

*palustris*, L. Sandy shores of Lake Champlain.

var. *myrtifolius*, Gray. Not common.

APIOS, Boer. Ground Nut.

*tuberosa*, Moen. Common.

AMPHICARPEA, Ell. Ground nut.

*monoica*, Nutt. Common in damp thickets.

CASSIA, L. Senna.

*Marilandica*, L. Not common. Confined to the Southern part of the State.

## Order 29.—ROSACEÆ.

## PRUNUS, Tourn. Plum. Cherry.

*Americana*, Marsh. Not common. (Wild Plum.)

*pumila*, L. Rocky shores of Lake Champlain.

*Pennsylvanica*, L. Common. (Wild red Cherry.)

*Virginiana*, L. Common. (Choke Cherry.)

*serotina*, Ehr. Common. (Black Cherry.)

## SPIRÆA, L. Meadow Sweet. Spiræa.

*salicifolia*, L. Not very common.

*toomentosa*, L. Common in pastures. (Hardhack.)

*lobata*, Murr. (Queen of the Prairie.) I saw a large clump of this this summer by the roadside near East Randolph. As it was at some distance from any dwelling, and apparently naturalized, it may properly be included in this list, though probably escaped from cultivation.

## AGRIMONIA, Tourn.

*Eupatoria*, L. Rather common in moist places.

## POTERIUM.

*Canadense*, Gray. Swamps. Brattleboro, Frost.

## GEUM, L.

*album*, Gmel. Not common. Borders of groves.

*macrophyllum*, Willd. Mt. Mansfield, Pringle.

*strictum*, Ait. Low grounds. Not common.

*rivale*, L. Swamps. Rather common.

## WALDSTEINIA, Willd.

*fragarioides*, Traut. Very common.

## POTENTILLA, L. Cinquefoil.

*Noveegica*, L. Common.

*Canadensis*, L. Dry pastures. Common.

*argentea*, L. Common.

*arguta*, Pursh. Moist grounds. Common.

*anserina*, L. Shores of Lake Champlain. Common.

*fruticosa*, L. Not common.

*tridentata*, Ait. Summits of higher mountains.

*palustris*, Scop. Swamps. Rare.

## FRAGARIA, Tourn. Strawberry.

*Virginiana*, Ehrh. Rather common.

*vesca*, L. More common than the other species.

## DALIBARDA, L.

*repens*, L. Common in damp woods.

## RUBUS, Tourn. Blackberry. Raspberry.

*odoratus*, L. Abundant along forest roads.

*triflorus*, Rich. Not common. Moist woods.

*strigosus*, Mx. Very common. Red Raspberry.

*occidentalis*, L. Black Raspberry. Common.



- villosus*, Ait. High Blackberry. Common.  
*Canadensis*, L. Low Blackberry. Less common than the preceding.  
*hispidus*, L. Not very common.
- ROSA**, Tourn. Wild Rose.  
*Carolina*, L. Rocky pastures. Common.  
*lucida*, Ehr. Shores of Lake Champlain. Not common.  
*blanda*, Ait. Common.  
*\*rubiginosa*. Rocky pastures. Not common. (Sweet Brier.)
- CRATEGUS**, L. Hawthorn.  
*coccinea*, L. Common.  
*tomentosa*, L. Chiefly found in Southern Vermont.  
*Crus-galli*, var. *punctata*, Gray. Not uncommon.
- PYRUS**.  
*arbutifolia*, L. Common in dry woods.  
 " vars. *melanocarpa* and *erythrocarpa*.  
*Americana*, D. C. Mountain sides. Common. (Mountain Ash.)  
*sambucifolia*, C. & S. Mt. Mansfield, Pringle.
- AMELANCHIER**, Med. Shad Bush.  
*Canadensis*, T. & G. Common.  
 " var. *Botryapium*, Gray. Common.  
 " var. *oblongifolia*, Gray. Less common.  
 " var. *rotundifolia*, Gray. Not rare.  
 " var. *oligocarpa*, Gray. Camels Hump, Horsford.

## Order 30.—SAXIFRAGACEÆ.

- RIBES**, L. Currant. Gooseberry.  
*Cynosbati*, L. Common in rocky woods. (Wild Gooseberry.)  
*hirtellum*, Mx. "Union Village, Vermont, Jessup."  
*lacustre*, Poir. Swamps. Not common.  
*prostratum*, L'Her. Mountain forests. Not common.  
*floridum*, L. Woods. Not common. (Black Currant.)  
*rubrum*, L. Swampy and rocky places. (Red Currant.)  
*aureum*, Poir. Escaped from gardens. (Missouri Currant.)
- HYDRANGEA**, GRONN.  
*arborescens*, L. Southern Vermont. Rare.
- PARNASSIA**, Tourn.  
*Caroliniana*, Mx. Wet places. Not common.
- SAXIFRAGA**, L.  
*oppositifolia*, L. Mansfield Mountain. Pringle Willoughby Lake, Wood.  
 *aizoides*, L. Willoughby Lake, Wood. Mt. Mansfield, Pringle.  
*aizoon*, Jacq. Mt. Mansfield, Pringle.  
*Virginiana*, Mx. Common.  
*Pennsylvanica*, L. Swamps. Not common.

MITRELLA, TOURN. Mitre Flower.

*diphylla*, L. Common on rocky slopes.

*nuda*, L. Less common. Swampy woods.

TIARELLA, L.

*cordifolia*, L. Abundant on moist banks.

CHRYSOSPLENIUM, TOURN.

*Americanum* Sch. Not very rare.

#### Order 31.—CRASSULACEÆ.

PENTHORUM, GRONOV. Stone Crop.

*sedoides*, L. Common along ditches.

SEDUM, TOURN. Live for ever.

*\*acre*, L. "Norwich, Vermont, on rocks."

*\*Telephium*, L. Common.

#### Order 32.—HAMAMELACEÆ.

HAMAMELIS, L. Witch Hazel.

*Virginica*, L. Common.

#### Order 33.—HALORAGACEÆ.

MYRIOPHYLLUM, VAILL. Millfoil.

*spicatum*, L. Ponds and streams.

*verticillum*, L. North Hero, Hosford.

*heterophyllum*, Mx.

*tenellum*, Bigelow. Grand Isle, Hosford.

PROSERPINACA, L.

*palustris*, L. Ditches and wet places.

#### Order 34.—ONAGRACEÆ.

CIRCEA, TOURN.

*Lutetiana*, L. Shaded places. Common.

*alpina*, L. Woods and rocks. Common.

EPILOBIUM, L. Willow Herb.

*angustifolium*, Common in clearings.

*alpinum*, L.

*palustre*, var. *lineare*, Gray. Swamps.

*molle*, Torr. Intervale land near Burlington.

*coloratum*, Muhl. Wet places. Common.

CECOTHERA, L. Evening Primrose.

*biennis*, L. Common. Roadsides and fields.

*fruticosa*, L. Willoughby Lake, Frost.

*pumila*, L. Rare. Woods.

LUDWIGIA, L.

*palustris*, Ell. Swamps and bogs.

## Order 35.—MELASTOMACEÆ.

RHEXIA. Deer Grass.

*Virginica*, L. Brattleboro, C. C. Frost.

## Order 36.—LYTHRACEÆ.

NESEA.

*verticillata*, H. B. K. Borders of ponds. near Burlington.  
Bristol pond, Pringle.

## Order 37.—CUCURBITACEÆ.

SICYOS, L.

*angulatus*, L. River banks. Not common.

ECHINOCYSTIS, T. &amp; G. Wild Cucumber.

*lobata*, T. & G. Banks of streams. Not common.

## Order 38.—UMBELLIFERÆ.

HYDROCOTYLE, Tourn.

*Americana*, L. Not common. Wet places.

SANICULA, Tourn. Snake Root.

*Canadensis*, L. Rather common. Woods.*Marilandica*, L. Common.

DAUCUS, Tourn. Carrot.

*\*carota*, L. Roadsides and fields.

HERACLEUM, L. Cow Parsnip.

*lanatum*, Mx. Low grounds. Not common.

PASTINICA, Tourn. Parsnip.

*\*sativa*, L. Escaped from cultivation. Old fields.

ARCHANGELICA, Hoffm.

*atropurpurea*, Hoffm. Meadows. Common in the south part  
of Vermont.

CONOSELINUM.

*Canadense*, T. & G. Swamps. Not common.

THASPIUM, Nutt. Meadow parsnip.

*aureum*, Nutt. Common in damp fields." var. *apterum*, Gray. Not very common.*trifolium*, Gray. Rocky, shaded places. Not common." var. *apterum*, Gray.

ZIZIA.

*integerrima*, D. C. Borders of groves. Common.

CICUTA, L. Water Hemlock.

*maculata*, L. Meadows. Rather common.*bulbifera*, L. Swamps. Not common.

SIUM, L. Water Parsnip.

*lineare*, Mx. Ditches and brooks. Not common.



## CRYPTOTÆNIA, D. C.

*Canadense*, D. C. Woods. Not common.

## OSMORHIZA, Raf. Sweet Cicely.

*longistylis*, D. C. Rich woods. Common.

*brevistylis*, D. C. Copses. Common.

## CONIUM, L. Poison Hemlock.

*maculatum*, L. Not common.

## Order 40.—ARALIACEÆ.

## ARALIA, Tourn. Spikenard.

*racemosa*, L. Woods. Common.

*hispida*, Mx. Rather common.

*nudicaulis*, L. Woods. Not rare.

*quinquefolia*, Gray. Woods. Not abundant.

*trifolia*, Gray. Common in damp woods.

## Order 41.—CORNACEÆ.

## CORNUS, Tourn. Dogwood.

*Canadensis*, L. Damp, shaded ground. Common.

*florida*, L. Found only in the southern part of the State. Not common.

*circinata*, L'Her. Thickets and borders of woods.

*sericea*, L. Damp soil.

*stolonifera*, Mx. Borders of streams. Not common.

*denticulata*, L'Her. Rocky groves and woods. Common.

*alternifolia*, L. Woods and hillsides.

## NYSSA, L. Piperidge Sour Gum.

*multiflora*, Wang. Not common.

## MONOPETALOUS EXOGENS.

## Order 42.—CAPRIFOLIACEÆ.

## LINNÆA, Gron.

*borealis*, Gron. Shaded hillsides and groves. Not very common.

## SYMPHORICARPUS. Snowberry.

*racemosus*, Mx. Rocky shores of Lake Champlain, and on some of the islands. Not common.

## LONICERA, L. Honeysuckle.

*parviflora*, Lam. Rocks on shores of Lake Champlain.

*hirsuta*, Eat. Rocky woods.

*ciliata*, Muhl. Ledges. Not rare.

*cærulea*, L. Mountains and swamps.

## DIERVILLA, Tourn.

*trifida*, Moen. Borders of woods. Common.

## TRIOSTEUM, L.

*perfoliatum*, L. Southern Vermont. Rocky soil.

## SAMBUCUS, Tourn. Elder.

*Canadensis*, L. Common.

*pubens*, Mx. Rocky slopes. Common.

## VIBURNUM. Sheepberry.

*Lentago*, L. Damp thickets.

*nudum*, L. Damp thickets.

*dentatum*, L. Wet places. Common.

*pubescens*, Pursh. Rocky banks.

*acerifolium*, L. Rocky woods. Not common.

*pauciflorum*, Py. Mount Mansfield, Hosford.

*Opulus*, L. Edges of woods

*lantanoides*, Mx. Damp soil. Common.

## Order 43.—RUBIACEÆ.

## GALIUM.

*aparine*, L. Moist ground. Common.

*asprellum*, Mx. Thickets. Common.

*trifidum*, L. Common.

*triflorum*, Mx. Borders of woods.

*pilosum*, Ait. Fields. Rare.

*circœzans*, Mx. Woods.

“ var. *Montanum*.

*lanceolatum*, Torr. Woods and clearings. Not common.

*\*verum*, L. Charlotte, Hosford.

## CEPHALANTHUS. Button Bush.

*occidentalis*, L. Damp soil. Not rare.

## MITCHELLA. Partridge Berry.

*repens*, L. Very common.

## HOUSTONIA, L. Forget-me-nots. Bluets.

*purpurea*, L. var. *longifolia*. Gray. Not common.

*cœrulea*, L. Very abundant.

## Order 44.—VALERIANACEÆ

## VALERIANA, S. Valerian.

*sylvatica*, Rich. Swamps. Not common.

## Order 45.—DIPSACEÆ.

## DIPSACUS, L. Teasel.

*sylvestris*, Mill. Old fields. Not common.

## Order 46.—COMPOSITÆ.

## VERNONIA. Iron Weed.

*Noveboracensis*, Willd. Low ground. Common.

## EUPATORIUM, TOURN.

*aperatoides*, L. Shady banks. Not rare.

*perfoliatum*, L. Common. (Boneset.)

*purpureum*, L. Common. Also several varieties.

## NARDOSMIA,

*palmata*, Hook. Swamp. Not common.

## TUSSILAGO, TOURN.

*\*farfara*, L. Borders of streams.

## SERICOCARPUS, Nees.

*solidagineus*, Nees. Not common.

*conyzoides*, Nees. Dry woods. Rare.

## ASTER, L.

*acuminata*, Mx. Woods.

*vesticus*, Ait. Cedar Swamps, C. G. Pringle.

*amethystinus*, Nutt. Brattleboro, Frost.

*carneus*, Nees. Brattleboro, Frost.

*cordifolius*, L. Woods.

*corymbosus*, Ait. Woods.

*graminifolius*, T. & G. Rare. Queechy Gulf, Jessup. Mt. Mansfield, Pringle. Willoughby Lake, and a few other localities.

*dumosus*, L. Edges of woods.

*lævis*, L. Open woods.

“ *var. cyaneus*, Gray. Brattleboro, Frost.

*longifolius*, Lam. Shady banks.

*macrophyllus*, L. Woods.

*miser*, Ait. Fields, and along fences.

“ *var. hirsuticaulis*, T. & G. Old fields.

*multiflorus*, Ait. Pastures and hillsides.

*Novæ-Angliæ*, L. Damp soil.

*patens*, L. Rare.

*ptarmicoides*, T. & G. Rocky hills. Rare.

*puniceus*, L. Meadows.

*Radula*, Ait. Brattleboro Frost.

*sagittifolius*, Willd. Brattleboro, Frost.

*simplex*, Willd. Bogs.

*Tradescanti*, L. Fields. Not common.

“ *var. fragilis*, T. & G. Burlington.

*undulatus*, L. Dry woods.

## ERIGERON, L. Fleabane.

*Canadense*, L. Old fields. Common.

*bellidifolium*, Muhl. Borders of groves.

*Philadelphicum*, L. Banks of streams. Common.

*annuum*, Pers. Meadows.



*strigosum*, Muhl. Fields.

DIPLOPAPPUS, Cass.

*linariifolius*, Hook. Sandy fields.

*umbellatus*, T. & G. Thickets.

SOLIDAGO, L. Golden Rod.

*altissima*, L. Low grounds.

*arguta*, Ait. Copses and banks.

" var. *juncea*, Gray. Burlington.

*bicolor*, L. Woods.

*Canadensis*, L. Along fences and edges of woods.

*cæsia*, L. Woods.

*gigantea*, Ait. Edges of woods.

*lanceolata*, L. Meadows.

*latifolia*, L. Moist, shady places.

*Muhlenbergii*, T. & G. Brattleboro, Frost.

*neglecta*, T. & G. Damp woods.

*nemoralis*, Ait. Pastures and hillsides.

*odora*, Ait. Woods.

*patula*, Muhl. Burlington.

*puberula*, Nutt. Woods.

*rigida*, L. Burlington. Dry fields and woods.

*serotina*, Willd. Meadows and thickets, Burlington.

*squarrosa*, Muhl. Dry soil.

*stricta*, Ait. Woods. Burlington. "Sharon, Dr. Baxter."

*thyrsoides*, Meyer. Willoughby, Mansfield, and other mountains.

*Virga-aurea*, L. Higher mountains.

" " var. *humilis*, Gray. Near Burlington.

INULA, L. Elecampane.

\**Helenium*, L. Roadsides. Common.

AMBROSIA, Tourn. Rag Weed.

*trifida*, L. Common in damp places.

*artemisiæfolia*, L. Old fields and gardens. Common.

XANTHIUM, Tourn. Cockle Bur.

*Strumarium*, L. Not common.

RUDEBECKIA, L. Cone Flower.

*hirta*, L. Introduced from the west. Common.

*laciniata*, L. Meadows. Common.

HELIANTHUS, L. Sunflower.

*decapetalus*, L. Meadows near Burlington.

" var. *frondosus*, Gray.

*divaricatus*, L. Pine woods.

*giganteus*, L. Brattleboro, Frost.

*strumosus*, L. Burlington, F. H. Hosford.

*tracheliiifolius*, Willd. Brattleboro, Frost.

\**tuberosus*, L. Naturalized in old gardens.

- BIDENS**, L. Beggar Ticks.  
*frondosa*, L. Damp soil. Common.  
*connata*, Willd.  
*cernua*, L. Common.  
*chrysanthemoides*, Mx. Wet ground.  
*Beckii*, Torr. Borders of ponds.
- MARUTA**, Cass. May Weed.  
*Cotula*, D. C. Very Common.
- ACHILLEA**, L. Yarrow.  
*millifolium*. Dry fields Sometimes with pink heads.
- LEUCANTHEMUM**, Tourm. Daisy.  
*\*vulgare*, Lam. Very common
- TANACETUM**, L. Tansy.  
*vulgare*, L. Common.
- ARTEMISIA**, L. Wormwood.  
*Canadensis*, Mx. Willoughby Lake, Mt. Mansfield, Pringle.  
*vulgaris*, L. Common.  
*Absinthium*, L. Common in many places.
- GNAPHALIUM**, L. Everlasting.  
*decurrens*, Ives. Dry fields. Common.  
*polycepalum*, Mx. Common.  
*uliginosum*, L. Low grounds.
- ANTENNARIA**, Gærtn. Everlasting.  
*margaritacea*, R. Br. Common.  
*plantaginifolia*, Hook. Common.
- ERECTHITES**, Raf. Fireweed.  
*hieracifolius*, Raf. Common in clearings.
- SENECIO**, L.  
*aureus*, L. Bogs.  
 " var. *obovatus*, and other varieties. Dry soil.
- CNICUS**, Vaill. Thistle.  
*lanceolatum*, Scop. Common.  
*discolor*, Spr. Fields and woods.  
*muticum*, Mx. Damp soil.  
*pumilum*, Spr. Fields.  
*horridulum*, Mx. Brattleboro, Frost.  
*arvense*, Scop. Common. (Canada Thistle.)
- ONOPORDON**, Vaill. Thistle.  
*acanthium*, L. Dry Fields.
- CICHORIUM**. Chicory.  
*\*Intybus*, L. Roadsides. Common.
- LIAPPA**. Burdock.  
*\*officinalis*, All. Common. (Burdock.)
- KRIGIA**, Sch.  
*\*Virginica*, Willd. Dry fields. Middlebury.

LEONTODON, L., Ives.

*\*autumnale*, L. Not common. Meadows.

HIERACIUM, TOURN. Hawkweed.

*Canadense*, Mx. Borders of woods.

*scabrum*, Mx. Open woods.

*Gronovii*, L. Dry soil.

*venosum*, L. Pine plains.

*paniculatum*, L. Woods.

NABALUS, CASS.

*albus*, Hook. Edges of woods.

*altissimus*, Hook. Damp woods.

*Bootii*, D. C. Mt. Mansfield, Pringle.

TARAXACUM, Hall. Dandelion.

*dens-leonis*, Desf. Common.

LACTUCA, TOURN. Lettuce.

*Canadense*, L. Borders of fields.

" var. *sanguinea*, T. & G. Pine groves.

MULGEDIUM, CASS.

*leucophæum*, D. C. C. G. Pringle.

SONCHUS L. Thistle.

*\*oleraceus*, L. Cultivated grounds.

*\*asper*, Vill. Waste grounds.

*\*arvensis*, L. Roadsides and fields.

#### Order 47.—LOBELIACEÆ.

LOBELIA, L. Lobelia.

*cardinalis*, L. Very abundant in limited localities.

*inflata*, L. Common in dry fields.

*spicata*, Lam. Pastures.

*Kalmii*, L. Not common. Moist cliffs.

*Dortmanna*, L. Willoughby Lake, Wood. Shelburne Pond.

#### Order 48.—CAMPANULACEÆ.

CAMPANULA TOURN. Harebell.

*rotundifolia*, L. Very common. Flowers sometimes white.

*aparinoides*. Damp soil. Not so common.

*rapunculoides*, L. Brandon, F. H. Knowlton.

SPECULARIA, H.

*perfoliata*, D. C. Dry, rocky ground. Not common.

#### Order 49.—ERICACEÆ.

GAYLUSSACIA, H. B. K. Huckleberry.

*frondosa*, T. & G. Not common.

*resinosa*, T. & G. Common.



- VACCINIUM, L. Blueberry. Cranberry.  
*Canadense*, Kalm. Damp soil. Common.  
*oxspitosum*, Mx. Mt. Mansfield, Pringle.  
*corymbosum*, L. Swamps. ●  
*macrocarpon*, Ait. Bogs. (Cranberry.)  
*Oxycoccus*, L. Bogs on higher mountains.  
*Pennsylvanicum*, Dry soil. Not common.  
*tenuellum*, L. Dry soil, and on mountains.  
*uliginosum*, L. Summits of mountains.  
*cucillans*, Sol. Pine barrens. Common.  
*Vitis-Idlea*, L. Summits of mountains.
- CHIOGENES, Salis.  
*hispida*, T. & G. Mt. Mansfield.
- EPIGEA, L. Mayflower. Arbutus.  
*repens*, L. Very common.
- GAULTHERIA, Kalm. Wintergreen.  
*procumbens*, L. Common.
- LEUCOTHOE, Don.  
*racemosa*, Swamps. Not common.
- CASSANDRA, Don. Leather leaf.  
*calyculata*, Don. Ditches and swamps. Not common.
- ANDROMEDA, L.  
*polifolia*, L. Swamps. Common.  
*ligustrina*, Muhl. Southern portions of the State.
- KALMIA, L. Laurel.  
*latifolia*, L. Found only in the southern counties.  
*angustifolia*, L. Dry soil. Abundant.  
*glauca*, Ait. Swamps. Common.
- AZALEA, L.  
*nudiflora*, L. Swamps. Not common.  
*viscosa*, L. Swamps. Rather rare.
- RHODODENDRON, L. Great Laurel.  
*macimum*, L. Groton Pond.
- RHODORA, Dub.  
*Canadensis*, L. Swamps. Not common.
- LEDUM, L. Labrador Tea.  
*latifolium*, Ait. Swamps and mountains. Common.
- PYROLA, Tourn.  
*rotundifolia*, L. Damp woods. Common.  
*elliptica*, Nutt. Woods. Common.  
*secunda*, L. Pine woods. Common.  
*chlorantha*, Swartz. Pine woods.  
*minor*, L. Smuggler's Notch, Pringle.
- MONESSES, Salis.  
*uniflora*, Gray. Not common.

## CHIMAPHILA, Pursh.

*umbellata*, Nutt. Dry woods. Common.*maculata*, Pursh. Pine woods. Common.

## PTEROSPORA, Nutt.

*Andromeda*, Nutt. Dry pine woods. Not common.

## MONOTROPA, L. Indian Pipe.

*uniflora*, L. Not common.*Hypopitys*, L. Pine woods. Rare.

## Order 50.—AQUIFOLIACEÆ.

## ILEX, L. Black Alder.

*verticillatus*, Gray. Swamps. Not common.*lævigatus*, Gray. Not common.

## NEMOPANTHES, Raf.

*Canadenses*, D. C. Damp woods and swamps.

## Order 51.—PLANTAGINACEÆ.

## PLANTAGO, L. Plantain.

*\*major*, L. A common weed.*Virginica*, L. Only in southern part of the state.*Rugellii*, Disc. Dry soil. Probably common.*\*lanceolata*, L. Common.

## LITTORELLA.

*lacustris*, L. Shore of Lake Champlain at Alburgh, Pringle.

## Order 52.—PRIMULACEÆ.

## PRIMULA.

*Mistassinica*, Mx. Willoughby Mountain, Wood, Pringle.

## TRIENTALIS.

*Americana*, Pursh. Common.

## LYSIMACHIA.

*thyrsiflora*, L. Swamps. Common.*stricta*, Ait. Damp soil.*quadrifolia*, L. Woods. Common.*ciliata*, Raf. Borders of woods.*lanceolata*, Walt. Var. *hybrida*. Wet soil.

## SAMOLUS, L.

*Valerandi*, L. Var. *Americanus*, Gray. River banks. Not common.

## Order 53.—LENTIBULACEÆ.

## UTRICULARIA, L. Bladderwort.

*vulgaris*, L. Swamps and ditches.*inflata*, Walt. Chiefly in Southern Vermont.*cornuta*, Mx. Shallow water.

## PINGUICULA.

*vulgaris*, L. Mt. Mansfield. Pringle.

## Order 54.—OROBANCHACEÆ.

## EPHEGESA, Nutt.

*Virginiana*, Bart. Beech woods. Not common.

## CONOPHOLIS, Wall.

*Americana*, Wall. Oak woods. Not common.

## ABHYLLON, Mitch.

*uniflorum*, T. & G. Old woods. Rather rare.

## Order 55.—SCROPHULARIACEÆ.

## VERBASCUM, L. Mullein.

\* *Thapsus*, L. Common in old fields.

\* *Blattaria*, L. Not common.

## LINARIA, Tourn.

*Canadensis*, Spreng. Moist ground.

\* *vulgaris*, Moen. Common.

## SCROPHULARIA.

*nodosa*, L. Not common.

## CHELONE, Tourn.

*glabra*, L. Damp places. Common.

## PENTSTEMON, Mitchell.

*pubescens*, Soland. Rocky ground. Not common.

## MIMULUS, L. Monkey Flower.

*ringens*, L. Wet places. Common.

## GRATIOLA, L.

*aurea*, Muhl. Wet places. Not common.

## ILYSANTHES, Raf.

*gratioloides*, Benth. Southern Vermont.

## VERONICA, L.

*Virginica*, L. Moist banks. Common.

*Anagallis*, L. Brooks and ditches. Common.

*Americana*, L. Wet ground. Not common.

*scutellata*, L. Brooks.

*affinis*, L. Drier soil than the preceding.

*serpyllifolia*, L. Meadows.

*pergrina*, L. Cultivated ground. Common.

\* *arcensis*, L. Old fields. Not rare.

## GERARDIA, L. Foxglove.

*purpurea*, L. Wet places. Not common.

*tennifolia*, Vahl. Dry fields. Southern Vermont.

*flava*, M. Woods. Southern Vermont.

*quercifolia*, Pursh. Woods. Not common.

*pedicularia*, L. Dry woods. Not common.



CASTILLEIA, Mutis. Painted Cup.  
*pallida*, Kunth. North side of Mt. Mansfield, near the top.

PEDICULARIS, Tourn.  
*Canadensis*, L. Common in open woods.

MELAMPYRUM, Tourn.  
*Americanum*, Mx. Woods. Common.

Order 56.—ACANTHACEÆ.

DIANTHERA.  
*Americana*, L. Borders of streams. Not common.

Order 57.—VERBENACEÆ.

VERBENA, L.  
*hastata*, L. Roadsides. Common.  
*urticifolia*, L. Roadsides. Common.

PHRYMA, L.  
*Leptostachya*, L. Woods. Not very common.

Order 58.—LABIATÆ.

TEUCRIUM, L.  
*Canadense*, L. Damp, rocky soil.

TRICHOSTEMA, L.  
*dichotoma*, L. Brattleboro, Frost.

MENTHA, Mint.  
*viridis*, L. Brooks. (Spear-mint.)  
*piperita*, L. Wet places. (Peppermint.)  
*Canadensis*, L. River banks. Not common.  
 " var. *glabrata*.

LYCOPUS, L.  
*Virginicus*, L. Low ground. Common.  
*Europæus*, L. Burlington.  
 " var. *sinuatus*, Gray.

HYSSOPUS, L.  
*\*officinalis*, L. Grand Isle, Pringle.

PYCNANTHEMUM, Mx.  
*aristatum*, Mx. Southern Vermont.  
*incanum*, Mx. Rocks and shady places. Not common.  
*muticum*, Pursh. Open fields.  
*lanceolatum*, Pursh. Borders of groves. Chiefly in Southern Vermont.  
*lilifolium*, Pursh. Southern Vermont.

CALAMINTHA, Maen.  
*Clinopodium*, Benth. Rocky soil.

MELISSA, P. Balm.  
*\*officinalis*, L. Escaped from gardens.

HEDEOMA, Pers. Pennyroyal.

*pulegioides*, Pers. Dry fields. Common.

MONARDA, L. Berghmot.

*fistulosa*, L. Dry woods. Not common.

BLEPHILIA.

*hirsuta*, Benth. Damp woods.

LOPHANTHUS.

*nepetoides*, Benth. Thickets.

*scrophularioides*, Benth. Waterbury, Pringle.

NEPETA, L. Catnip.

\**cataria*, L. Common.

\**Glechoma*, Benth. Roadsides, near dwellings.

PHYSOSTEGIA.

*Virginiana*, Benth. Shore of Lake Champlain, Pringle.

BRUNELLA, Tourn.

*Vulgaris*, L. Fields and open woods.

SCUTELLARIA, L. Skullcap.

*parvula*, Mx. Rocks. Not common.

*galericulata*, L. Damp soil. Not common.

*lateriflora*, L. Damp places.

MARRUBIUM. Horehound.

*vulgare*, L.

GALEOPSIS, L. Hemp Nettle.

\**Tetralix*, L. Roadsides. Common.

\**Ladanum*, L. Old fields.

STACHYS, L. Hedge Nettle.

*palustris*, L. Not common.

" var. *aspera*, Gray. Northern Vermont.

LEONURUS, L. Motherwort.

\**Cardiaca*, L. Borders of fields and gardens.

#### Order 59.—BORRAGINACEÆ.

ECHINUM, Tourn.

\**vulgare*, L. "Pomfret and Sharon. Scarce."

LYCOPSIS.

\**arvensis*, L. Roadsides. Not common.

SYMPHYTUM, Tourn.

\**officinale*, L. Damp soil. Not common.

LITHOSPERMUM, Tourn.

\**arvensis*, L. Old fields. Not common.

\**officinale*, L. Dry fields.

MYOSOTIS, L.

\**palustris*, Roth. Wet ground. Not common.

*verna*, Nutt. Brattleboro, Frost. Windsor, Leland.  
*arvensis*, Hoff. "Sharon, Dr. Butler. Scarce."

ECHINOSPERMUM, Sw. Beggar Ticks.

\**Lappula*, Lehm. Dry soil. Common.

CYNOGLOSSUM, Tourn.

\**officinale*, L. Roadsides. Common.

*Virginicum*, L. Woods. Common.

*Morisoni*, D. C. Thickets. Not common.

#### Order 60.—HYDROPHYLLACEÆ.

HYDROPHYLLUM.

*Virginicum*, L. Woods.

*Canadensis*, L. Common.

#### Order 61.—POLEMONIACEÆ.

POLEMONIUM, Tourn.

*ceruleum*, L. Ripton, Vermont, E. Brainerd.

PHLOX, L.

*subulata* L. Mt. Mansfield.

DIAPENSIA, L.

*Lapponica*, Mt. Mansfield, Pringle.

#### Order 62.—CONVOLVULACEÆ.

CONVOLVULUS, L. Bindweed.

*arvensis*, L. Common near Burlington.

CALYSTEGIA, R. Br.

*Sepium*, R. Br. Damp thickets.

*spithamea*, Pursh. Common.

CUSCUTA, Tourn. Dodder.

*Gronovii*, Willd. Damp places. Not common.

#### Order 63.—SOLANACEÆ.

SOLANUM, Tourn.

\**Dulcamara*, L. Roadsides.

\**nigrum*, L. Fields and cultivated grounds.

PHYSALIS, L. Ground Cherry.

*viscosa*, L. Dry field and roadsides. Not common.

HYOSCYAMUS, Tourn.

*niger*, L. Dry soil. Not common.

DATURA, L. Thorn Apple.

*Stramonium*, L. Waste places.



## Order 64.—GENTIANACEÆ.

## HALENIA, Bot.

*deflexa*, Gries. Banks of Lewis Creek. Charlotte. F. H. Horsford.

## GENTIANA, L. Gentian.

*quinqueflora*, Lam. Woods.

*crinita*, Frœl. Damp meadows.

*amarella*, L. Var. *acuta*, Wat. Smuggler's Notch.

*Andrewsii*, Grise.

*linearis*, Gray. Cedar Swamps, Pringle.

## BARTONIA.

*tenella*, Muhl. Swampy places.

## MENYANTHES, Tournef. Buck Bean.

*trifoliata*, L. Common in swamps.

## Order 65.—APOCYNACEÆ.

## APOCYNUM, Tournef.

*androsæmifolium*, L. Common.

*cannabinum*, L. Not common.

## Order 66.—ASCLEPIADACEÆ.

## ASCLEPIAS, L. Milkweed.

*Cornuti*, Dec. Common.

*incarnata*, L. Wet places. Common.

*obtusifolia*, Mx. Dry soil.

*phytolaccoides*, Pursh. Woods.

*purpurascens*, L. Common.

*quadrifolia*, Mx. Rocky woods. Common.

*tuberosa*, L. Sandy fields.

*variegata*, L. Brattleboro, Frost.

*verticillata*, L. Not common.

## VINCETOXICUM, Moench.

*\*nigrum*, Moen. Meadows. Not common.

## Order 67.—OLEACEÆ.

## LIGUSTRUM, Tournef. Privet.

*vulgare*, L. Naturalized from cultivation.

## FRAXINUS, Tournef. Ash.

*Americana*, L. Moist woods. Common. (White Ash.)

*pubescens*, Lam. Along the banks of streams. (Red Ash.)

*sambucifolia*, Lam. Swamps. Common. (Black Ash.)

## APETALOUS EXOGENS.

### Order 68.—ARISTOLOCHIACEÆ.

- ASARUM, TOURN. Wild Ginger.  
*Canadense*, L. Common in moist, rock soil.

### Order 69.—PHYTOLACCACEÆ

- PHYTOLACCA, TOURN. Pokeweed  
*decandra*, L. Not common in most places.

### Order 70.—CHENOPODIACEÆ.

- CHENOPODIUM, L. Pigweed.  
*\*album*, L. A common weed.  
*\*hybridum*, L. Waste places. Common.  
*\*Botrys*, L. Sandy shores of Lake Champlain.
- BLITUM, TOURN.  
*capitatum*, L. Roadsides and fields.
- ATRIPLEX, TOURN.  
*patulata*, L. Var. *littoralis*, Gray. Ferrisburgh, F. H. Hosford.

### Order 71.—AMARANTACEÆ.

- AMARANTUS, TOURN.  
*hybridus*, L. A common garden weed.
- MONTELLA, MOQ.  
*tamarascina*, Gray. Low grounds.

### Order 72.—POLYGONACEÆ.

- POLYGONUM, L. Knot weed. Smart weed.  
*acre*, H. B. K. Common in wet places.  
*amphibium*, L. Common in sluggish streams.  
*aviculare*, L. Common.  
     " var. *erectum*, Roth.  
*arifolium*, L. Swamps. Common.  
*Careyi*, Oln. Swamps.  
*cilinode*, Mx. Woods.  
*\*convolvulus*. Roadsides and fields. Common.  
*dumetorum*, L'Her. Moist thickets.  
*Hydropiper*, L. Common in damp places.  
*hydropiperoides*, Mx. Less common.  
*Pennsylvanicum*, L. Wet places. \*Common.  
*\*Persicaria*, L. Damp waste places.  
*sagittatum*, L. Low grounds. Common.  
*tenue*, Mx. Dry, rocky soil.  
*Virginianum*, L. Dry soil.  
*civiparum*. Mt. Mansfield, Pringle.

FAGOPYRUM, Tourn. Buckwheat.  
*esculentum*, Moen. Old fields.

RUMEX, L. Dock.

\* *Patientia*, L. Common in the extreme northern part of the State.

*orbiculatus*, Gray. Waste places. Common.

*verticillatus*, L. Swamps.

*crispus*, L. Cultivated ground.

*obtusifolius*, L. Cultivated ground.

*sanguineus*, L. Southern part of the State.

*Acetosella*, L. Very common. (Sorrel.)

#### Order 73.—LAURACEÆ.

SASSAFRAS. Sassafras.

*officinale*, Nees. Found only in the southern part of the State.

LINDERA. Spice Bush.

*Benzoin*, Nees. Damp woods and swamps.

#### Order 74.—THYMELACEÆ.

DIRCA, L. Moosewood.

*palustris*, L. Swamps near Burlington. Not common.

#### Order 75.—ELÆAGINACEÆ.

SHEPHERDIA.

*Canadensis*, Nutt. Rocks. Shores of Lake Champlain. Rare.

#### Order 76.—SANTALACEÆ.

COMANDRA. Toadflax.

*umbellata*, Nutt. Dry soil. Pine barrens. Common.

*livida*, Rich. Mt. Mansfield, Pringle.

#### Order 77.—CERATOPHYLLACEÆ.

CERATOPHYLLUM, L.

*demersum*, L. Var. *echinatum*, Gray. Near Burlington, and also at Lake Memphremagog.

#### Order 78.—CALLITRICHACEÆ.

CALLITRICHÉ, L.

*verna*, L. Borders of ponds.

*autumnale*, L. Borders of ponds.

#### Order 79.—EUPHORBIACEÆ.

EUPHORBIA, L.

\* *Helioscopia*, L. Waste ground.



- \**hypericifolia*, L. Sandy fields.  
*maculata*. Roadsides.  
 \**platyphylla*, L. Roadsides.  
 \**peplus*, L. Charlotte, Pringle.

ACALYPHA, L.

- Virginica*, L. Open fields.

Order 80.—EMPETRACEÆ.

EMPETRUM; Tourn.

- nigrum*, L. Tops of higher mountains. -

Order 81.—URTICACEÆ.

ULMUS, L. Elm.

- fulva*, Mx. Damp woods. Not very common. (Slippery Elm.)  
*Americana*, L. Very common in damp soil. (Common Elm.)  
*racemosa*, Th. River banks. Not common. (Cork Elm.)

CELTIS, Tourn. Hackberry.

- occidentalis*, L. Meadows. Not very common.

MORUS, Tourn. Mulberry.

- rubra*, L. Thickets. Rare.

URTICA, Tourn. Nettle.

- gracilis*, Ait. Moist ground. Common.  
 \**dioica*, L. Roadsides, &c. Common.

LAPORTEA, Gaud.

- Canadensis*, Gaud. Moist woods. Not common.

PILEA, Lind.

- pumila*, Gray. Moist thickets.

BØEHMERIA, Jacq.

- cylindrica*, Willd. Swamps.

PARIETARIA, Tourn.

- Pennsylvanica*, Muhl. Limestone cliffs. Not common.

CANNABIS, Tourn. Hemp.

- \**sativa*, L. Waste places.

HUMULUS, L. Hop Vine.

- lupulus*, L. River banks and moist thickets.

Order 82.—PLATANACEÆ.

PLATANUS, L. Sycamore. Button Ball.

- occidentalis*, L. River banks. Not common.

Order 83.—JUGLANDACEÆ.

JUGLANS, L. Butternut.

- cinerea*, L. Found over the entire State. Common.  
*nigra*, L. Black Walnut.

## CARYA, Nutt. Walnut.

*alba*, Nutt. Most common near Lake Champlain.*porcina*, Nutt. Not common. (Pignut.)*amara*, Nutt. Woods and fields. Not common. (Bitter Walnut.)

## Order 84.—CUPULIFERÆ.

## QUERCUS, L. Oak.

*alba*, L. Found chiefly in the western and southern parts of the State. (White Oak.)*bicolor*, Willd. Damp woods. Not common. (Swamp Oak.)*coccinea*, Wang. Not common. (Scarlet Oak.)" var. *tinctoria*, Gray. (Black Oak.)" var. *ambigua*, Gray. (Gray Oak.)*ilicifolia*, Wang. Not common. Southern Vermont.*macrocarpa*, Mx. (Bur Oak.)*prinoides*, Willd. Dry hills. Not common. (Chestnut Oak.)*Prinus*, L., var. *monticola*, Mx. Rocky soil. Not common.*Muhlenbergia*, Engl. Gardner's Island, Lake Champlain. Pringle.*rubra*, L. Our most common species. (Red Oak.)

## CASTANEA, Tourn. Chestnut.

*vesca*, L. Chiefly found in Southern Vermont. Not common.

## FAGUS, Tourn. Beech.

*ferruginea*, Ait. Abundant everywhere.

## CORYLUS Tourn. Hazel.

*Americana*, Walt. Common.*rostrata*, Ait. Common.

## OSTRYA, Michx. Hornbeam.

*Virginica*, Willd. Not very common.

## CARPINUS, L. Ironwood.

*Americana*, Mx. Not abundant.

## Order 85.—MYRICACEÆ.

## MYRICA, L. Sweet Gale.

*Gale*, L. Borders of ponds.

## COMPTONIA, Sol. Sweet Fern.

*asplenifolia*, Ait. Dry soil. Common.

## Order 86.—BETULACEÆ.

## BETULA, Tourn. Birch.

*lenta*, L. Not rare. (Black Birch.)*lutea*, Mx. Common. (Yellow Birch.)*alba*, var. *populifolia*, Lp. Abundant. (White Birch.)*papyracea*, Ait. Common. (Canoe Birch.)*pumila*, L. Swamps. Not common. (Swamp Birch.)*glandulosa*, Mx. Summits of higher mountains.

## ALNUS, Tourn. Alder.

*viridis*, D. C. Summits of higher mountains.*incana*, Willd. Swamps.*serrulata*, Ait. Abundant. The common species.

## Order 87.—SALICACEÆ.

## SALIX, Tourn. Willow.

*alba*, L. Dry soil." var. *vitellina*, Gray.\* *Babylonica*, Tourn. Naturalized by cultivation. (Weeping Willow.)*balsamifera*. Mt. Mansfield, Pringle.*candida*, Willd. Swamps. Not common.*chlorophylla*, And. Mt. Mansfield, Pringle.*cordata*, Muhl. Low grounds.*Cutleri*, Tuck. Summits of higher mountains.*discolor*, Muhl. Banks of streams.\* *fragilis*, L. Cultivated for osiers.*humilis*, Mar. Damp thickets.*longifolia*, Muhl. "Windsor, Jessup." Lake Champlain, Pringle.*livida*, Wall. Var. *occidentalis*, Gray. Found chiefly in Southern Vermont.*lucida*, Muhl. Swamps.*myrtilloides*, L. Swamps.*nigra*, Mar. Banks of streams.*petiolaris*, Sm. Charlotte, C. G. Pringle.*sericea*, Mar. Swamps and sandy banks of streams.

## POPULUS, Tourn. Poplar.

*angulata*, Ait.*tremuloides*, Mx. Common.*grandidentata*, Mx. Woods and hillsides. Common.*monilifera*, Ait. Western portion of the State. (Cottonwood.)*balsamifera*, Mx. Woods and river banks." var. *candicans*. (Balm of Gilead.)\* *dilitata*, Ait. (Lombardy Poplar.)\* *alba*, L. Common. (Silver Poplar.)

## GYMNOSPERMAÆ.

## Order 88.—CONIFERÆ.

## PINUS, Tourn. Pine.

*rigida*, Miller. Common. (Pitch Pine.)*Banksiana*, Lam. Monkton, R Robinson. (Gray Pine.)



- mitis*, Mx. Not common. (Yellow Pine.)  
*resinosa*, Ait. Common. (Norway Pine.)  
*strobilus*, L. Common. (White Pine.)

**ABIES**, Tourn. Spruce. Fir.

- nigra*, Poir. Swamps and mountain forests. Common. (Black Spruce.)  
*alba*, Mx. Woods and wet places. (White Spruce.)  
*Canadensis*, Mx. (Hemlock Spruce.)  
*balsamifera*, Mar. Not common. (Balsam Fir.) A form of this species, resembling *Abies Fraseri*, is found on the summits of the higher mountains.

**LARIX**, Tourn. Larch. Hackmatack.

- Americana*, Mx. Swamps. Common.

**THUJA**, Tourn. Cedar.

- occidentalis*, L. Very common. (White Cedar.)

**CUPRESSUS**, Tourn.

- thyoides*, L. Willoughby Lake, Frost. "Mt. Ascutney, Le-land."

**JUNIPERUS**, L. Juniper.

- communis*, L. Common.  
*Virginiana*, L. Not very common. (Red Cedar.)  
*sabina*, L. var. *procumbens*, Pursh. Rutland. Mrs. Carr.

**TAXUS**, Tourn. Yew.

- baccata*, L. Var. *Canadensis*, Gray. Cold, damp woods.

## ENDOGENOUS PLANTS.

### Order 89.—ARACEÆ.

**ARISEMA**, Mart.

- triphyllum*, Torr. Common.  
*Dracontium*, Schott. Western portion of the State. Not common.

**CALLA**, L. Calla.

- palustris*, L. Swamps. Common.

**SYMPLOCARPUS**. Skunk Cabbage,

- fotidus*, Salisb.

**ACORUS**, L. Sweet Flag.

- Calamus*, L. Common.

## Order 90.—LEMNACEÆ.

## LEMNA, L. Duckweed.

*trisulca*, L. Borders of ponds.*minor*, L. Still water. Common.*polyrrhiza*, L.

## Order 91.—TYPHACEÆ.

## TYPHA, Tourn. Cat-tail.

*latifolia* L. Swamps. Common.*angustifolia*. Ferrisburgh, Pringle.

## SPARGANIUM, Tourn.

*eurycarpum*, Eng. Ditches and ponds.*simplex*, Huds.“ var. *Nuttallii*, Gray.“ var. *fluitans*, Gray. Sterling Pond, Pringle.

## Order 92.—NAIADACEÆ.

## NAIAS, L.

*flexiles*, Rost. Sluggish streams and ponds.

## POTAMOGETON, Tourn.

*compressus*, L. Rivers and ponds. Not common.*Claytonii*, Tuck. Dead Creek, Ferrisburgh, Pringle.*spirillus*, Tuck. Brattleboro, Frost.*hybridus*, Mx. Lake Champlain.*rufescens*, Schr. “Windsor, Vermont. Infrequent.”*lonchites*, Tuck. Pringle.*lucens*, L. Ponds.*amplifolius*, Tuck. Pringle.*gramineus*, L. Rivers and Ponds.*perfoliatus*, L.*obtusifolius*. Shelburne Pond, Pringle.*natans*, L. Ponds.*pauciflorus*, Pursh.*pectinatus*, L. Lake Champlain.*prælongus*, Wulf. Willoughby Lake, Wood.*pulcher*, Tuck. Brattleboro, Frost.

## Order 93.—ALISMACEÆ.

## SCHEUCHZERIA, L.

*palustris*, L. Bogs.

## ALISMA, L.

*plantago*, L. Common.

## SAGITTARIA, L.

*lanceolata*, L. Not common.

- heterophylla*. Mouth of Mississquoi River, Pringle.  
 " Pursh. Var. *elliptica*, Gray. Dead Creek, Ferrisburgh, Pringle.  
*variabilis*, Engl. Very common.  
*graminea*, Mx. Mouth of Mississquoi River, Pringle.  
*natans*, Mx. Brattleboro, Frost.

## Order 94.—HYDROCHARIDACEÆ.

- ANACHARIS, Rich.  
*Canadensis*, Planc. Not very common.  
 VALLISNERIA, Mich. Eel Grass.  
*spiralis*, L. Winooski River.

## Order 95.—ORCHIDACEÆ.

- ORCHIS, L. Orchis  
*spectabilis*, L. Damp woods. Not common.  
 HABENARIA, Willd.  
*blephariglottis*, Hook. Bogs. Not common.  
*ciliaris*, R. Br. Swamps. Not common.  
*dilatata* Gray. Swamps. Not common.  
*fimbriata*, R. Br. Rare.  
*Hookeri*, Torr. Rather rare.  
*hyperborea*, R. Br. Damp, cold woods.  
*lacera*, R. Br. Bogs. Rare.  
*obtusata*, Rich. Camel's Hump.  
*Orbiculata*, Pursh. Damp, cold woods.  
*psychodes*, Gray. Meadows.  
*rotundifolia*, Rich. Monkton, Pringle.  
*tridentata*, Hook. Swamps.  
*viridis*, R. Br. Var. *bracteata*, Rich. Damp woods.  
*virescens*, Spreng. Wet meadows.  
 GOODYERA, R. Br.  
*repens*, R. Br. Borders of wood roads. Not common.  
*pubescens*, R. Br. Woods. Rather common.  
 SPIRANTHES, Richards.  
*latifolia*, Torr. Moist places.  
*Romanzoriana*, Champ. "North Pomfret, A. P. Morgan."  
*cernua*, Rich. Meadows, along brooks.  
*gracilis*, Big. Woods.  
 LISTERA, R. Br.  
*cordata*, R. Br. Borders of swamps.  
*convallarioides*, Hook. Mountain roads.  
 ARETHUSA, Gron.  
*bulbosa*, L. Swamps. Common.  
 POGONIA, JUSS.  
*ophioglossoides*, Nutt. Swamps. Common.



*pendula*, Lindl. Cold woods. Rare.  
*verticillata*, Nutt. Woods. Very rare.

CALOPOGON, R. Br.

*pulchellus*, R. Br. Swamps. Not rare.

CALYPSO, Salisb.

*borealis*, Salisb. Abundant in a few swamps, elsewhere very rare.

TIPULARIA, Nutt.

*discolor*, Nutt. Brattleboro, Frost. Rare.

MICROSTYLIS, Nutt.

*monophyllus*, Lindl. "Pomfret, Union Village, Mt. Ascutney."

*ophioglossoides*, Nutt. "Pomfret and Mt. Ascutney."

LIPARIS, Rich.

*liliifolia*, Rich. Moist banks. Rare.

*Læselii*, Rich. Meadows. Rare.

CORALLORHIZA, Hall.

*innata*, R. Br. Damp woods. Rare.

*odontorrhiza*, Nutt. Moist banks. Rare.

*multiflora*, Nutt. Very rare.

APLECTRUM, Nutt.

*hyemale*, Nutt. Woods. Rare.

CYPRIPEDIUM, L. Moccasin Flower. Lady's Slipper.

*arietinum*, R. B. Rocky woods. Rare.

*parviflorum*, Sol. Rutland. L. Bigelow.

*pubescens*, Willd. Moist woods. Not common.

*spectabile*, Sw. Swamps. Not generally common.

*acaule*, Ait. Common in some places.

#### Order 96.—AMARYLLIDACEÆ.

HYPOXIS, L.

*erecta*, L. Southern part of the State.

#### Order 97.—IRIDACEÆ.

IRIS, L. Blue flag.

*versicolor*, L. Common.

SISYRINCHIUM, L.

*Bermudiana*, L. Common.

" var. *anceps*, Gray.

" var. *mucronatum*, Gray.

" var. *albidum*, Gray.

#### Order 98.—SMILACEÆ.

SMILAX, Tourn.

*rotundifolia*, L. Not common.

*herbacea*, L. Not common.

## Order 99.—LILIACEÆ

## TRILLIUM, L.

*grandiflorum*, Salisb. Abundant in Western Vermont.

*erectum*, L. Common in moist woods.

" var. *album*. Not common.

*occidentale*, L. Found only in the southern part of the State.

*erythrocarpum*, Mx.

## MEDEOLA, GRONOV.

*Virginica*, L. Common.

## VERATRUM, TOURN. Hellebore.

*viride*, Ait. Common in damp meadows.

## TOPHELIA, HUDS.

*glutinosa*, Huds. "Queechy Gulf, Leland. Rare."

## UGULARIA, L. Bellwort.

*grandiflora*, Sm. Not abundant.

*perfoliata*, L. Not common.

*sessifolia*, L. Our most common species.

## STREPTOPUS, Mx.

*amplexifolius*, D. C. Mountain forests.

*roseus*, Mx. Not common.

## CLINTONIA Raf.

*borealis*, Raf. Very abundant in mountain forests.

## SMILACINA, DESF.

*racemosa*, Desf. Not rare.

*stellata*, Desf. Common.

*trifolia*, Desf. Swamps. Common.

*bifolia*, Desf. Very abundant.

## POLYGONATUM, TOURN.

*biflorum*, Ell. Woods.

*gigantea*, Diet. Damp soil.

## ASPARAGUS, L.

*officinalis*, L. Escaped in some places from cultivation.

## LILIUM, L. Lily.

*Philadelphicum*, L. Dry soil. Common.

*Canadense*, L. Meadows. Common.

## ERYTHRONIUM, L.

*Americanum*, Sm. Common in low grounds.

## ALLIUM, L. Garlic.

*tricoctum*, Ait. Woods. Not common.

*schoenoprasum*, L. "Windsor, Vermont, Leland."

## HEMEROCALLIS, L. Day Lily.

*fulva*, L. Escaped from cultivation, Pringle.

## Order 100.—JUNCACEÆ.

## LUZULA, D. C.

*pilosa*, D. C.*parviflora*, var. *melanocarpa*, Gr. Mountains.*campestris*, D. C. Woods and fields.*spicata*, Des. Smuggler's Notch, Pringle.

## JUNCUS, L. Rush.

*acuminatus*, Mx.*alpinus*, Vill. Var. *insignis*, Fries. Shore of Lake Champlain.*bufonius*, L. Low grounds.*Canadensis*, Gray. Var. *longicaudatus*, Gray. Bristol Pond, Pringle.*Canadensis*, var. *brachycephalous*, Gray.*effusus*, L. Wet places.*filiformis*, L. Summits of higher mountains.*marginatus*, Rastk. Sandy river banks.*nodosus*, L. Wet meadows.*pelocarpus*, Meyer. Shores of ponds.*tenuis*, Willd. Low grounds.*trifidus*, L. Mountain summits.

## Order 101.—PONTEDERIACEÆ.

## PONTEDERIA, L.

*cordata*, L. Ponds. Common.

## SCHOLLERA.

*graminea*, Willd. Otter Creek, near mouth.

## Order 102.—XYRIDACEÆ.

## XYRIS, L.

*Caroliniana*, Walt. Brattleboro, Frost.

## Order 103.—ERIOCAULONACEÆ.

## ERIOCAULON, L.

*Septangulare*, With. Borders of Ponds.*decangulare*, L. Willoughby lake, Wood.

## Order 104.—CYPERACEÆ.

## CYPERUS, L.

*dentatus*, Torr. Grand Isle, Pringle.*diandrus*, Torr, var. *castaneus*, Torr. Borders of ponds.*filiculmis*, Vahl. Dry soil.*inflexus*, Muhl. Sandy river banks.*lutescens*, T. & H.*phymatodes*, Muhl. Sandy soil.*strigosus*, L. Low grounds.



## DULICHIMUM, Rich.

*spathaceum*, Pers. Borders of ponds.

## ELEOCHARIS, R. B.

*acicularis*, Torr.

*intermedia*, Sch.

*olivacea*, Torr. Bristol, Pringle.

*rostellata*, Torr.

*tenuis*, Sch.

## SCIRPUS.

*atrovirens*, Muhl.

*cespitosus*, L. "Smugglers' Notch," Pringle.

*Eriophorum*, Mx. Ditches.

" var. *laxus*, Gray.

*fluvialis*, Gray.

*pauciflorus*, Light. Lyndon, J. W. Congdon.

*planifolius*, Muhl. Charlotte, Pringle.

*pungens*, Vahl.

*polyphyllus*, Vahl.

*sylvaticus*, L. Congdon.

*Smithii*, Gray. Lake Champlain. Ferrisburg, C. E. Faxon.

*validus*, Vahl.

## ERIOPHORUM, L. Cotton Grass.

*alpinum*, L. Swamps.

*raginatum*, L. Swamps.

*Virginicum*, L. Swamps.

*polystachon*, L.

" var. *angustifolium*, Gray.

" var. *latifolium*, Gray.

*gracile*, Koch.

## FIMBRISTYLIS, Vahl.

*autumnalis*, R. & L.

*capillaris*, Gray.

## RHYNCHOSPORA, Vahl.

*alba*, Vahl.

*capillacea*, Torr.

*fusca*, R. & S. Bank of Connecticut river. F. H. Hosford.

*glomerata*, Vahl. Low grounds.

## CLADIUM, P. B.

*mariscoides*, Torr. Swamps.

## SCLERIA, L.

*triglomerata*, Mx.

## CAREX, L. Sedge.

*aperta*, Bert. Middlebury, E. Brainerd.

*arctata*, Boott. Woods.

*aquatilis*, Vahl. Bristol Bay, Pringle.

*atrata*, L. Smuggler's Notch, Pringle.

*aurea*, Nutt. Moist ledges.

- Backii*, Rich hill, Charlotte, Pringle.  
*bromoides*, Schk. Moist woods.  
*bullata*, Schk. Meadows.  
*canescens*, L. Wet meadows.  
*cephalophora*, Muhl. Woods.  
*comosa*, Boott. Wet places.  
*conoidea*, Schk. Wet meadows.  
*crinita*, Lam. Moist banks.  
*cristata*, Schw. Middlebury, E. Brainerd.  
*Crawei*, Dew. Charlotte, Pringle.  
*debilis*, Mx. Woods.  
*Deweyana*, Schw. Woods.  
*eburnea*, Boott. Rocks.  
*Emmonsii*, Dew. Hillsides.  
*exilis*, Dew. Bristol, Pringle.  
*flexilis*, Reed. Pomfret, Morgan. Middlebury, Brainerd.  
*filiformis*, L. Bogs.  
*flava*, L. Meadows.  
*folliculata*, L. Bogs.  
*gracillima*, Schw. Wet groves.  
*granularis*, Muhl. Shaded rocks.  
*Grayii*, Carey. Middlebury, Brainerd.  
*gynandra*, Huntington, Pringle.  
*grisea*, Wahl. Low grounds.  
*Hitchcockiana*, Dew. Woods. Pomfret, A. R. Morse.  
*hystericina*, Willd. Wet fields.  
*intumescens*, Rud. Woods.  
*irrigua*, Smith. Mt. Mansfield, Pringle.  
*lagopodioides*, Schk. Wet meadows.  
*lanuginosa*, Mx. Wet places.  
*laxiflora*, Lam. Woods.  
     " var. *latifolia*.  
*lenticularis*, Mx. Mt. Mansfield and Willoughby Lake, Pringle.  
*livida*, Willd. Bristol Pond, Pringle.  
*longirostris*, Torr. Mountains and ledges.  
*lupulina*, Muhl. Meadows.  
*lupuliformis*, Sart. Pringle.  
*mileacea*, Muhl. Moist banks.  
*monile*, Tuck. Wet places.  
*Noæ Angliæ*, Schw. Wooded hills and mountains.  
*Øderi*, Ehrh. "Banks of White River," and elsewhere.  
*oligocarpa*, Schk. Groves.  
*pallescens*, L. Meadows.  
*pedunculata*, Muhl. Woods.  
*Pennsylvanica*, Lam. Woods.  
*plantaginea*, Lam. Woods.  
*platyphylla*, Carey. Dark woods.  
*polytrichoides*, Muhl.  
*Pseudo-Cyperus*, L. Ditches, etc.  
*retrorsa*, Schw. Swamps.

- riparia*, Curt. Banks of streams.  
*retrocurva*, Dew. Charlotte, Pringle.  
*rigida*, Gord. Var. Bigelovii, Gray Summits of higher mountains.  
*rosea*, Schk. Woods.  
*rostrata*, Mx.  
*Schaefferi*, Dew. Swamps.  
*scirpoides*, Mx. Mt. Mansfield, Pringle. Willoughby Lake.  
*scabrata*, Schw. Swamps.  
*scoparia*, Schk. Wet fields.  
*siccata*, Dew. Moist banks.  
*sparganoides*, Muhl. Moist banks.  
*spurirosa*, L. Woods on Otter Creek. Ferrisburgh, Robbins.  
*stellulata*, L. Wet places.  
*sterilis*, Willd. Swampy ground.  
*stipata*, Muhl. Meadows.  
*straminea*, Schk. Woods and fields.  
*striata*, Mx. Wet ground.  
*stricta*, L. Shelburne Pond. Wet meadows.  
*tenella*, Schk. Woods.  
*tentaculata*, Muhl. Wet fields.  
*tenuiflora*, Wahl. Swamps.  
*teretiuscula*, Good. Bogs.  
*torta*, Boott. A. P. Morgan.  
*trichocarpa*, Muhl. Wet places.  
*triceps* Mx. Middlebury, E. Brainerd.  
*trispemia*, Dew. Swamps.  
*Tuckermanni*, Boott.  
*umbellata*, Schk. Summit of Mansfield and other mountains.  
*utriculata*, Boott. Meadows and swamps.  
*varia*, Muhl. Dry, wooded hills.  
*vestita*, Willd. Sandy soil.  
*virescens*, Muhl. Edges of woods.  
*vulpinoidea*, Mx. Moist fields.  
*vulgaris*, Fries.

#### Order 105—GRAMINEÆ.

##### LEERSIA, Sol.

- Virginica*, Sm. Damp woods.  
*oryzoides*, Sw. Ditches and streams.

##### ZIZANIA, Gron. Wild Rice.

- aquatica*, L. Edges of ponds and streams.

##### ALOPECURUS, L. Foxtail Grass.

- \*pratensis*, L. Moist ground.  
*\*geniculatus*, L.  
*aristulatus*, Mx. Monkton, Pringle. Middlebury, Brainerd.

##### PHLEUM, L. Cat-tail Grass.

- pratense*, L. Fields.

## VILFA, Adan.

- aspera*, Beauv. Thompson's Point, Pringle.  
*vagineflora*, Torr. Shore of Lake Champlain, Pringle.

## SPOROBOLUS, R. Br.

- serotinus*, Gray. Ripton, Royce. Bakersfield, Pringle.

## AGROSTIS, L.

- perennans*, Tuck. Damp, shaded places.  
*scabra*, Willd. Dry soil. Clefts of rocks, etc.  
*canina*, L. Meadows.  
*vulgaris*, With. Meadows and fields.  
*alba*, L. Meadows.

## CINNA, L.

- arundinacea* L. Var. *pendula*, Gray. Wet woods.

## MUHLENBERGIA, Schr.

- sobolifera*, Trin. Rocky hills and open woods.  
*glomerata*, Trin. Swamps.  
*Mexicana*, Trin. Damp ground.  
*sylvatica*, T. & G. Woods.  
*Willdenovii*, Trin. Rocky woods.  
*diffusa*, Schr. Charlotte, Pringle.

## BRACHYELYTRUM, Beauv.

- aristatum*, Beauv. Woods.

## CALAMAGROSTIS, Adanson.

- Canadensis*, Beauv. Wet fields.  
*Langsdorffii*, Trin. Mt. Mansfield, Pringle.  
*stricta*, Trin. Mt. Mansfield, Pringle.  
*Nuttalliana*, Steud. "Windsor, Leland."  
*arenaria*, Roth. Alburgh, Pringle, Hosford.

## ORYZOPSIS, Mx.

- melanocarpa*, Muhl. Shady rocks, Willoughby Lake.  
*asperifolia*, Mx. Mountain forests.  
*Canadensis*, Torr. Pastures.

## ARISTIDA, L.

- dichotoma*, Mx. Barren soil.

## SPARTINA, Schreb.

- cynosuroides*, Willd. River banks.

## TRICUSPIS, Beauv.

- seslerioides*, Torr. Sandy soil.

## GRAPHEPHORUM, Desv.

- melicoides*, Beauv. Banks of Winooski River, Colchester,  
 Pringle.

## DACTYLIS, L. Orchard Grass.

- \**glomerata*, L. Fields.

## KÆLERIA, Pers.

- cristata*, Pers. Dry hillsides. Burlington.



## EATONIA, Raf.

*Pennsylvanica*, Gray. Moist places.

## GLYCERIA.

*Canadensis*, Trin.

*obtus*a, Trin. Wet fields. Southern Vermont.

*elongata*, Trin. Damp woods.

*nervata*, Trin. Meadows.

*pallida*, Trin. Shallow waters.

*aquatica*, Sm. Wet places.

*fluitans*, R. Br. Sluggish streams.

## POA, L. Meadow Grass.

*annua*, L. Cultivated fields.

*compressa*, L. Sandy soil.

*alpina*, L. Summit of Mount Mansfield.

*lusa*, L. Hænke. Summits of higher mountains.

*caesia*, Sm. "Thetford, Blanchard."

*serotina*, Ehrh. Damp places.

*pratensis*, L. Fields and roadsides.

*trivialis*, L. Meadows.

*debilis*, Torr. Charlotte, Pringle.

*alsodes*, Gray. Woods.

## ERAGROSTIS, Beauv.

*reptans*, Nees. River banks.

*capillaris*, Nees. Sandy soil.

*pectinacea*, Gr. Lake shore. Burlington.

## BRIZA, L.

*\*media*, L.

## FESTUCA, L.

*tenella*, Willd. Sandy soil.

*ovina*, L.

" var. *duruscula*, Gray. Dry fields.

*\*elatior*. Fields.

*nutans*, Willd. Rocky woods.

## BROMUS, L.

*\*secalinus*, L. Cultivated fields.

*Kalmii*, Gray. Dry Soil.

*ciliatus*, L. Woods.

## PHRAGMITES, Trin.

*communis*, Trin. Borders of ponds.

## LOLIUM, L. Darnel.

*\*perenne*, L. Willoughby Lake.

## TRITICUM, L. Wheat.

*repens*, L. Very common.

## ELYMUS, L. Wild Rye.

*Virginicus*, L.

*Canadensis*, L. Rocky banks of streams.

- striatus*, Willd. Dry, rocky soil.
- GYMNOSTICHUM, Serch.  
*Hystrix*, Schr. Moist woods.
- DANTHONIA, D. C.  
*compressa*, Aux. Waterbury, Pringle.  
*spicata*, Beau. Dry fields and woods.
- AVENA, L. Oat.  
*striata*, Mx. Rocky soil, in the shade.
- TRisetum, Pers.  
*subspicatum*, Beauv, var. molle.
- AIRA, L. Hair Grass.  
*flexuosa*, L. Dry woods.  
*cæspitosa*, L. River banks.  
*atropurpurea*, Wahl. Mt. Mansfield.
- ARRHENATHERUM, Beau.  
*atropurpurea*, Wahl. Charlotte, Hosford.
- HOLCUS, L.  
*\*lanatus*, L.
- HIEROCHLOA, Gmel.  
*borealis*, R. & S. Lake shore, Burlington, Pringle.  
*alpina*, R. & S.
- ANTHOXANTHUM, L. Sweet Grass.  
*\*odoratum*, L. Fields.
- PHALARIS, L.  
*\*Canariensis*, L. Pastures and fields.  
*arundinacea*, L. Wet ground.  
 " var. *picta*.
- MILIUM.  
*effusum*, L. Woods in Southern Vermont.
- PASPALUM, L.  
*setaceum*, Mx. Dry fields.
- PANICUM, L.  
*amarum*, Ell. Sandy shores of Connecticut River, Brattleboro,  
 Pringle.  
*capillare*, L. Gardens and fields.  
*clandestinum*, L. Woods.  
*\*Crus Galli*, L. Cultivated grounds.  
*depauperatum*, Muhl. Several varieties also occur.  
*dichotomum*, L. Low ground.  
*\*glabrum*, Gaud. Cultivated ground.  
*latifolium*, L. Sandy soil in the shade.  
*\*sanguinale*, L. Cultivated grounds.  
*virgatum*, L. Lake shore, Ferrisburgh, Pringle.  
*\*anthophysum*, Gray.

- SETARIA, Beauv.  
*\*glauca*, Beauv. Cultivated ground.  
*\*viridis*, Beauv. Cultivated ground.

- CENCHRUS, L. Burr Grass.  
*tribuloides*, L. Sandy soil.

- ANDROPOGON, L.  
*furcatus*, Muhl. Dry, rocky soil.  
*scoparius*, Mx.

- SORGHUM, Pers.  
*nutans*, Gray. Dry fields.

## CRYPTOGAMOUS PLANTS.

### ACROGENS.

#### Order 106.—EQUISETACEÆ

- EQUISETUM, L.  
*arvense*, L. Damp fields and pastures.  
*sylvaticum*, L. Damp woods.  
*limosum*, L. Shallow water, border of ponds.  
*\*littorale*. Knight's Island. Lake Champlain, Hosford.  
*hyemale*, L. Moist banks.  
*variegatum*, Sch. River banks.  
*scorpioides*, Mx. Damp, shaded banks.

#### Order 107.—FILICES.

- POLYPODIUM, L.  
*vulgare*, L. Common on damp, shaded cliffs and rocks.
- PELLEA, L.  
*gracilis*, Hook. Wet cliffs in several localities.  
*atropurpurea*, L. Limestone cliffs. Not common.
- PTERIS, L.  
*aquilina*, L. Common in fields and open woods.
- ADIANTUM, L. Maiden hair Fern.  
*pedatum*, L. Common in damp woods.
- WOODWARDIA, Smith.  
*Virginica*, Sm. Pond in Colechester and other swamps.
- CAMPTOSORUS, Link. Walking Fern.  
*rhizophyllus*, Link. Common on rocks.

ASPLENIUM, L.

- Trichomanes*, L. Common in clefts of limestone rocks.  
*ebeneum*, Ait. Less abundant than the last.  
*viride*, Huds. Mt. Mansfield, Pringle. [See American Naturalist, vol. 9, p. 741.]  
*Ruta-muraria*, L. Not common. Limestone cliffs.  
*angustifolium*, Mx. Not common. Damp woods.  
*thelypteroides*, Mx. Woods.  
*Filix-fœmina*, Bern. Our most abundant species.

PHEGOPTERIS, Fée.

- polypodioides*, Fée. Common. Woods.  
*hexagonoptera*, Fée. Not common. Woods.  
*Dryopteris*, Fée. Common. Open woods.

ASPIDIUM, Sw.

- acrostichoides*, Sw. Dry woods. Common.  
*aculeatum*, Sw. Var *Braunii*. Rock. Abundant on several of the higher mountains.  
*Thelypteris*, Sw. Very common in swampy fields.  
*Novaeboracense*, Sw. Common in mountain forests.  
*fragrans*, Sw. Mt. Mansfield, Pringle.  
*spinulosum*, Sw. Common.  
 “ var. *intermedium*, Willd.  
 “ var. *dilatatum*, Gray. Moist woods.  
 “ var. *Boottii*, Gray. Woods.  
*cristatum*, Sw. Not rare.  
*Goldianum*, Hook. Damp, rich woods. Rare.  
*marginale*, Sw. Common.

STRUTHIOPTERIS, Willd.

- Germanica*, Willd. Damp places. Common.

ONOCLEA, L.

- sensibilis*, L. Common.

CYSTOPTERIS, Bern.

- bulbifera*, Bern. Shaded ravines. Not common.  
*fragilis*, Bern. Rocky woods.

WOODSIA, R. Br.

- ilvensis*, R. Br. On rocks. Common.  
*hyperborea*, B. Br. Mt. Mansfield, Pringle.  
*glabella*, R. Br. Mt. Mansfield, Pringle. Willoughby Lake.  
*obtusata*, Torr. Rocky hillsides.

DICKSONIA, L'Her.

- punctilobula*, Kun. Common in moist woods.

OSMUNDA, L.

- regalis*, L. Swamps. Common.  
*Claytoniana*, L. Common.  
*cinnamomea*, L. Pastures. Common.



## BOTRYCHIUM, Sw.

*simplex*, Hitch. Dry fields. Pringle.*matricariæfolium*, Al. Br.*lanceolatum*, Ang." var. *obliquum*, Milde." var. *dissectum*, Milde.*Virginicum*, Sw. Not very common.

## OPHIOGLOSSUM, L.

*vulgatum*, L. Meadows.

## Order 108.—LYCOPODIACEÆ.

## LYCOPodium. Ground Pine. Running Pine.

*Selago*, L. Mountain summits.*innundatum*, L. Sterling Pond, Pringle.*lucidulum*, Mx. Mountain forests.*annotinum*, L. Woods.*dendroideum*, Mx. Woods.*clavatum*, L. Dry woods. Common.*complanatum*, L. Woods. Common.

## SELAGINELLA,

*rupestris*, Sp. Dry rocks. Common.*apus*, Sp. Damp ground. Not common.

## ISOETES.

*lacustris*, L.*echinospora*, Dur. Var. *Braunii*. Lake of the Clouds, Mt.

Mansfield.

*riparia*, Eng. Borders of streams and ponds.*Englemanni*, Braun. Shallow ponds.







